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QUALIFICATIONS STATEMENT
RESIDENT ENGINEERING/ DESIGN SERVICES

BOSTON REDEVELOPMENT AUTHORIT
FENWAY AREA – ST. BOTOLPH ST.
HARCOURT TO WEST NEWTON ST.

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Maguire Group Inc.
Architects/Engineers/Planners
60 First Avenue
Waltham, Massachusetts 02254
Telephone 617/890-0100

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March 25, 1988

Mr. Paul Reavis
Asst. Director of Engineering
and Design Services
One City Hall Plaza
Boston, MA 02201

Regarding: Boston Fenway Area - Street Scape Improvements
to St. Botolph St.

Dear Mr. Reavis:

Maguire Group Inc. is pleased to have this opportunity to submit our statement of qualifications for the referenced project. Our team of highly skilled engineers and technicians have extensive experience in urban redevelopment services.

The designated project manager, Mr. Arthur Landers, brings several years of experience in working closely with the BRA as coordinator of the BRA South End Revitalization Project. In addition, Maguire has been engineering and planning consultant to the Boston Redevelopment Authority in the South End since 1964. During the past twenty-four years, contracts worth over $70 million have been completed or prepared for reconstruction. These include many contracts for street reconstruction, a comprehensive program of new lighting systems, and improvements to and new construction of water supply, storm drainage and sanitary sewer systems.

Maguire Group Inc. has the available staff and resources necessary to successfully complete the design and engineering services for street scape improvements within the project area. We acknowledge the importance of this project to the BRA and have assigned to it a team of talented and experienced senior level professionals.

We look forward to favorable review of our qualifications.

Very truly yours,

MAGUIRE GROUP INC.

Robert A. Watts, P.E.
Assistant Vice President
Director of Engineering

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EXECUTIVE SUMMARY

Maguire Group Inc. is pleased to respond to the BRA request for professional engineering and design services for the Fenway area project.

During the past 50 years Maguire has completed numerous assignments in and around the City of Boston. Our recent and relevant experience includes the reconstruction of Tremont and Columbus Avenue, North Station urban system improvements, and the Urban renewal planning design and reconstruction of several of the South End streets, sidewalks and utilities. Our understanding of the BRA's administrative and regulatory requirements on each of these assignments have led to the successful completion of these projects. Our sensitivity to the urban environment and the impacts on the neighborhoods has allowed for successful design and engineering solutions to the numerous problems that were inherent in each of these assignments.

Maguire Group has extensive working knowledge and experience in dealing with the numerous city and state agencies who are involved in the development and reconstruction process.

Through our years of experience in the South End and other sections of the city, our staff has developed positive working relationships with various department heads and engineering/regulatory professional staff. In addition to providing services to the BRA, Maguire Group Inc. has successfully completed assignments for the Boston Water & Sewer Commission, Boston Department of Public Works, Metropolitan District Commission, Mass. DPW and the City Conservation Commission just to name a few.

In addition to our sensitivity in dealing with public agencies Maguire Group Inc. has successfully worked hand in hand with numerous private and civic groups concerned with the rehabilitation of neighborhoods and business districts throughout the city.

We are particularly proud of our record in working with these groups in an effort to reach the goals of the city.

The team members that we have assigned on the project bring many, many years of professional skill and talent. Arthur Landers, Alex Parker, Harry Weikel, Norman Mullaney, Edward Dunn, Al Boldrighini, Tony Cavalieri and Carol Dwyer all have successfully worked together in the development and execution of similar projects.

In addition to Maguire Group staff we are pleased to note that we are joined by two well respected subconsultants on this particular assignment. DMC Engineering, a minority business enterprise with expertise in cost estimating and utilities engineering, along with The Halvorson Company, a noted landscape firm in the City of Boston bring an added dimension to the team.

The team's proven ability to deal with all of the issues surrounding such a project should not go unnoticed, and will ultimately lead to a successful completion of this assignment.

Maguire Group Inc. is prepared to begin immediately on this important and highly visible assignment. We believe that the team that we have assembled has the experience and qualifications required.

Maguire Group and the subconsultants expertise of DMC Engineeing and The Halvorson Company are totally committed to completing the assignment in a professional and expeditious manner.

We look forward to an opportunity to once again serve the City and the BRA.

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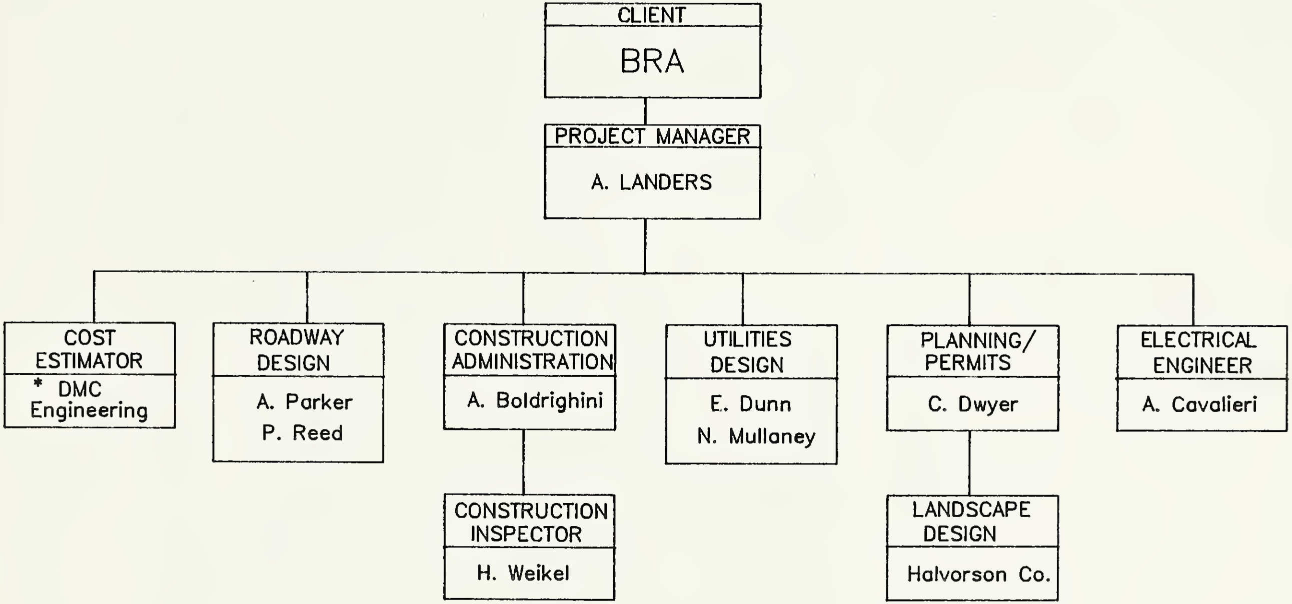
PROJECT TEAM ORGANIZATION

DESIGN ENGINEERING SERVICES – FENWAY AREA



* MINORITY BUSINESS ENTERPRISE

ARTHUR E. LANDERS, P.E.

POSITION:	Project Manager, Urban Renewal Environmental Engineering Division
EDUCATION:	Army Specialized Training Program B-60 Engineering B.A., Boston University
REGISTRATION:	Registered Professional Engineer Commonwealth of Massachusetts

PROFESSIONAL EXPERIENCE:

As project manager for the Boston Redevelopment Authority's South End Urban Renewal Project since 1966, Mr. Landers has provided administration and coordination of engineering with urban planning.

The South End Urban Renewal Project includes verification of condition of existing sewers and drains scheduled to remain, reconstruction of storm drainage and sanitary sewer systems, restoration of the water supply system, installation of new street lighting systems, construction of parks and playgrounds, structural repair of building shells, and reconstruction of many miles of city streets. Starting in 1977, the sewer and drain systems reconstruction has been provided through the EPA grants program.

Mr. Landers' work includes the staging and scheduling of contracts; the correlation of engineering design with public and private utilities, and private development; the preparation of urban renewal proposals related to state and federal funding programs; and operating procedures which facilitate cooperation between the Boston Redevelopment Authority and the City of Boston, Federal and State agencies, private utility companies, and the South End community.

Mr. Landers is responsible for layout and design, and the preparation of construction plans and other contract documents for numerous projects. He is familiar with past and current practices of both public and private utility agencies, and with the problems related to construction in the urban setting. He has supervised resident engineering for the South End Urban Renewal Project contracts since May 1972. Land taking and property transfer plans, the accompanying legal descriptions, and Massachusetts Land Court Plans are prepared under his supervision. Mr. Landers has also been responsible for the critical review of private site development plans, as well as private utility installations.

Employed by Maguire Group Inc. since 1950, Mr. Landers has worked on many varied projects in the fields of highway transportation, sanitary engineering and urban renewal.

ALBERT J. BOLDRIGHINI

POSITION:	Assistant Vice President Construction Services Department
EDUCATION:	Franklin Technical Institute Structural Design

PROFESSIONAL EXPERIENCE:

Mr. Boldrighini has overall management responsibilities of the Construction Management Group activities at the Waltham office of Maguire Group Inc. In this capacity, he is responsible for contract administration, project management during construction, cost estimating, and review of shop drawings for projects in both the public and the private sectors.

Mr. Boldrighini is also responsible for inspection on all EPA funded projects designed in the Waltham office.

Some of the projects in which Mr. Boldrighini has acted as the Construction Manager and/or Project Manager include sewerage improvements in the cities of Cambridge, Boston, Fall River, Salem, and Waltham as well as projects for the Boston Redevelopment Authority. Most of these project costs, totalling approximately eighty million dollars, were EPA funded. These consisted of sewage treatment plants, water tanks, pumping stations and many diversified water and sewer pipelines projects. Some of these projects involved the installation of large diameter pipes in congested metropolitan areas.

Prior to joining Maguire Group Inc., Mr. Boldrighini's previous experience (25 years) included responsible positions as Estimator, Construction Engineer, Superintendent and General Superintendent on major construction projects in New England for firms such as Pirini Corporation, Barletta Company, DeMatteio Construction Company, and Coleman Brothers. He was general superintendent of the Callan Construction Company of Bristol, Rhode Island for ten years.

Some of his major projects include Hard Rock Tunnels in Boston, Massachusetts and in Liberty, New York; Interstate Highways in New England such as the Central Artery in Boston; and the Horseneck Beach Bridge in Westport, Massachusetts; and sections of Route 128 and 25.

His experience during the ten years with Callan Construction Company was highly diversified as related to municipal construction in the areas of drainage, sewerage systems, utilities, and street construction.

NORMAN R. MULLANEY

POSITION	Senior Environmental Engineer
EDUCATION	B.S. in Civil Engineering Northeastern University
PROFESSIONAL SOCIETIES	Water Pollution Control Federation New England Water Pollution Control Assn.

PROFESSIONAL EXPERIENCE

Mr. Mullaney is responsible for detailed engineering investigations and preliminary and final design for waste water collection systems. Mr. Mullaney is presently completing final design plans and specifications for an estimated $17 million sewer inspection program for the City of Cambridge, Massachusetts.

Recent experience includes: the preparation of final engineering plans and specifications for sewerage collection systems for the cities of Salem, Waltham, and Cambridge, Massachusetts, and the Towns of Tiverton, Rhode Island and Wellesley, Massachusetts. He also inspected construction of sewers in Cambridge, Massachusetts.

Mr. Mullaney was involved as a project team member for: the final design of sludge handling facilities for a 25 mgd activated sludge treatment plant for the City of Meriden, Connecticut, with specific responsibility for process piping and equipment design and layout; the field investigation and preparation of final plans and specification for the rehabilitation of the Amelia Earhart Locks and Dam on the Mystic River; the preparation of feasibility reports and license applications for small hydroelectric projects for the Allegheny River Locks and Dams near Pittsburgh, Pennsylvania and the Bloomington Lake Dam in Maryland.

EDWARD P. DUNN, P.E.

POSITION: Vice President
Group Manager-Environmental Engineering

EDUCATION: B.S. in Physics
Boston College

REGISTRATION: Registered Professional Engineer
Commonwealth of Massachusetts

PROFESSIONAL SOCIETIES: Boston Society of Civil Engineers
Past Chairman of Hydraulics Group
New England Water Works Association
Representative to AWWA Technical Committee

PROFESSIONAL EXPERIENCE:

Mr. Dunn is responsible for engineering, production and management of the Waltham office of the Environmental Engineering Division.

Projects within the Environmental Engineering Division include drainage and flood control, water supply treatment, and distribution as well as sewerage pumping and treatment, mechanical and hydraulic systems.

In addition to overall management and general supervision of the Division, Mr. Dunn is directly responsible for the mechanical aspects of pumping of treatment facilities. He has been directly responsible for design and detailed specifications related to piping systems; pumping systems for sewer, water, fire protection and drainage; and control systems of many of the Division's projects.

Major unique projects completed under Mr. Dunn's supervision include the Charles River Dam and Locks Flood Control Project, the Mystic River Flood Control Pumping Station, the Charles River Estuary Pollution Control Facilities and the Boston South End Pumping Station. The total cost of these four projects exceeds $75 million. The pumping horsepower of these stations ranged form 2,400 to 18,000 horsepower each. Mr. Dunn also directed all aspects of the engineering for a high pressure, high temperature pump testing facility designed to test pumps up to 16,000 horsepower. This facility was designed primarily to test nuclear reactor coolant pumps at 650 degrees F and 2,500 psi.

Mr. Dunn has been active in a design review capacity of many of the company's projects for all offices. He has recently participated in Value Engineering for a large wastewater project in New Haven which included two large pumping stations and over 10,000 feet of force main.

ANTHONY B. CAVALIERI

POSITION: Principal Electrical Engineer

EDUCATION: Coyne Electrical School
Lowell Institute

PROFESSIONAL EXPERIENCE:

Since joining Maguire in 1963 Mr. Cavalieri has been responsible for design and layout of complete electrical systems for building services, industrial process power and control, power generation and distribution, highway lighting, airport lighting, special auxiliary systems, environmental services and transportation services.

Some of the projects on which Mr. Cavalieri has worked are: Interstate Route I-91 and I-190 highway lighting; Logan Airport, Boston, approach roadway lighting; runway lighting at Windham Airport, Windham, Connecticut; Hanscom Field temporary runway and approach lighting; Renovations of Dexter Building Hospital Facility, Foxborough, Massachusetts; Computer Facilities for Combustion Engineering, Inc., in Connecticut; Museum of Science in Boston; Boston State College; Allendale Insurance Company in Rhode Island; Polaroid Corporation in Norwood, Massachusetts; University of Massachusetts Library Building in Amherst; Mystic and Charles River Dam projects; Kaiser Aluminum Co. in Rhode Island; Blue Cross Building in Connecticut; Dunfey Family Motel in Pennsylvania; Seeburg Corporation in Chicago; Hamilton Standard and United Aircraft in Connecticut; Marlin and Colt Firearms in Connecticut; Digital Corporation in Vermont; City of Boston recreation and park lighting; parking garage in Boston; Blackstone Valley Electric Co. and Newport Electric Co. in Rhode Island; and numerous other industrial, commercial and institutional projects.

During eight years prior to coming to Maguire Group Inc. Mr. Cavalieri was associated with Alonzo B. Reed, Inc., and Metcalf & Eddy, Inc. engaged in the development of similar systems design as indicated above.

CAROL M. DWYER

POSITION:	Planner II
EDUCATION:	B.A., Smith College University of Geneva Switzerland,Junior Year Radcliffe Institute, Certificate in Landscape Design Harvard University, two courses on the built environment

PROFESSIONAL EXPERIENCE:

Since joining Maguire Group Inc. in July of 1984, Ms. Dwyer has been involved in a number of planning studies, including the Marlborough Master Plan Update, preparation of Environmental Impact Reports for the On-Shore Water Transportation Facilities for the Massachusetts Water Resources Authority, Libby Industrial Park in Weymouth, and Downing Industrial Park in Pittsfield, and a site selection study for the United States Postal Service in Bedford, MA.

In Marlborough, Ms. Dwyer described the City's assets and needs in public presentations which assessed neighborhood characteristics and documented the planning issues which faced the City. To highlight Marlborough's rich heritage, she photographed the City's historic features and old prints from the collection of the Marlborough Historical Society. These analyses were important in the development of policies for the Master Plan related to enhancing the neighborhoods. Her public presentations encouraged positive and constructive support of the Master Plan.

Ms. Dwyer has made numerous planning presentations to civic and professional groups, and taught under a grant of the Massachusetts Historical Commission.

PLANNING BOARDS

She has been a member and Chairman of the Concord Planning Board, and recently served as Co-Chairman of Concord's Long Range Plans Committee. She developed a mailing piece with map which drew a full house to the public hearing on the plan, and engaged active support for the recommendations.

DIRECTORSHIPS

Ms. Dwyer serves as a Member of the Board of Governors of the Concord Museum, and a Director of the Concord Museum, and a Director of the Concord Housing Development Corporation.

HARRY L. WEIKEL, JR.

POSITION: Chief Resident Engineer

EDUCATION: Eastern Nazarene College

PROFESSIONAL EXPERIENCE:

Mr. Weikel performed the duties of Chief Resident Engineer in the City of Fall River, Massachusetts. The work included the construction of a $31 million Secondary Waste Water Treatment Plant. He supervised a staff of our field inspectors.

Previously, Mr. Weikel was resident engineer for five projects within the City of Fall River, which included the renovation of two pumping stations, rehabilitation of existing sewers and drain and sewer separation work totalling $8 million.

Previously, Mr. Weikel was a general construction cost estimator of Maguire's staff. He had been assigned responsibility for numerous projects ranging from condominium construction to public transportation projects such as the Washington D.C. Rapid Transit System.

Prior to joining the staff of Maguire Group Inc., he was part owner, for six years of H.L. Weikel & Sons (a small construction firm). He then joined McKee-Berger-Mansuetto, Inc. nationally known construction consultants for a period of three years. During his tenure with MBM, he worked both in the field and office in estimating and design review on numerous types of projects.

He then joined R.S. Means Company, Inc., editors and publishers of the well-known "Building Construction Cost Data." While with Means Company, along with his duties as Cost Estimator, he contributed to the "Finishes Section" of the above-mentioned publication.

Some of Mr. Weikel's experience includes design review and estimating on the following projects: Unicor, Inc., Medical Office Buildings; Boston City Hospital; Out-Patient Department and Mechanical Plant; Naval War College, Newport Rhode Island; Renovation and Restoration of Fanueil Hall Markets, Boston; University of Massachusetts, Columbia Point; Arboretum Condominium Complex, Peabody, Massachusetts; Metropolitan Bus Facility, San Juan, Puerto Rico; Five Million Gallon Water Storage Tank, Well, Water Main and Street Construction, Franklin, Massachusetts.

ALEXANDER PARKER

POSITION: Senior Engineer

EDUCATION: Associate Certificate in Civil Engineering
Lincoln Institute
B.B.S. in Engineering Management
Northeastern University

PROFESSIONAL EXPERIENCE:

Since joining Maguire Group Inc. in 1962, Mr. Parker has had a variety of civil engineering assignments, including sewer, water, heavy civil structures, and transportation projects. In many of these projects, he has been involved in general inspection to insure conformity with the design intent.

Mr. Parker has recently completed assignments on the design of Truck Safety Inspection Areas at scattered locations in Massachusetts and the design of a portion of Interstate Route 190 within the Wachusett Reservoir Watershed. This latter project entailed field inspections of a variety of pollution control measures incorporated in the design.

Prior to this he had completed an assignment as utilities engineer on the design of a cut and cover and tunnel section of the Massachusetts Bay Transportation Authority's Red Line rapid transit extension in Cambridge and Somerville, Massachusetts and had been engaged in the same capacity on a design section of the Metropolitan Area Transit Authority's subway system in Washington, D.C. Both of these projects necessitated relocation designs of major sewers and water lines up to 48" in diameter to adapt them to the restrictions imposed by existing and proposed facilities.

Mr. Parker was assistant project manager on the West Roxbury Rapid Transit Extension Study for the M.B.T.A., and the Cambridge Street Underpass design prepared for Harvard University. On the latter project, he was responsible for preliminary and final design, which included the relocation and abandonment of utilities, the maintenance of a large water main in close proximity to the project, and redesign of a utility tunnel across Cambridge Street.

He has also been responsible for a study report on the Neponset River Bridge and approaches in Boston and Quincy. He was project engineer for highway design on the Thames River Bridge and approaches in Connecticut, and also worked on studies for the Inner Belt and Radial Expressway System for Boston.

Before joining Maguire in 1962, Mr. Parker was in charge of the design for three miles of Primary Route 37 in Rhode Island. He also worked on the preliminary and final design for section of the Massachusetts Turnpike, the Southeast Expressway in Massachusetts, Interstate Route 95 in Maine, and on various secondary highways for the Vermont State Highway Department.

Mr. Parker's experience has also included Ground Control Triangulation Survey and Construction Layout Hangars, Barracks, Runways and Roads for the Thule Air Force Base in Greenland and construction layout for several multi-unit housing projects in the Boston Area.

PETER C. WELANETZ

Mr. Welanetz was graduated from Bucknell University in 1968 with a degree in Mechanical Engineering and worked for four years as a design engineer with major consulting engineering firms in Boston, Massachusetts and Tucson, Arizona. In 1976 he was graduated from the University of Michigan with a masters degree in Landscape Architecture. He was awarded the Alumni Prize for "greatest potential for original and imaginative work".

Mr. Welanetz joined Carol R. Johnson & Associates, Inc. in 1976 and was named an Associate in 1979. He served as project director during his five years of professional practice in that office, with responsibilities for project management and contract administration, client coordination, design, preparation of technical drawings and specifications and site supervision of construction. Mr. Welanetz has been involved with a wide range of projects, from institutional master plans and site development work to municipal park rehabilitation and commercial development work.

He joined The Halvorson Company, Inc. in 1981 as a Senior Associate, becoming Vice President in 1983. Mr. Welanetz is a registered landscape architect in the Commonwealth of Massachusetts and the State of Pennsylvania.

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TEAM QUALIFICATIONS/EXPERIENCE

MAGUIRE GROUP INC. (Engineering Design)

Maguire Group Inc. has experience in urban roadway reconstruction in Revere, Cambridge, Waltham, Medford, Somerville and most notably in Boston.

In the South End of Boston, Maguire has designed and provided construction services on contracts worth over $70 million. Maguire was selected as the engineering consultant to the BRA in 1964 and has continued to supply services for this area - the second largest Urban Renewal area in the country.

The engineering program in the South End required construction and reconstruction of streets; traffic, fire and police signal systems, master planning for land use and zoning, public facilities, services and recreational area; rights-of-ways and traffic.

Maguire's work for the BRA includes several recent major engineering study and design projects and a recent architectural assignment. We are most familiar with BRA procedures and personnel.

Maguire's Waltham staff has grown 15% in the past year and now has almost 90 staff. The Maguire' Team relevant experience is profiled in greater detail later in this section.

DMC ENGINEERING INC. (Utilities, Cost Estimating)

DMC Engineering, Inc. is a full service structural and civil engineering Minority Business Enterprise. The company has particularly strong expertise in the areas of municipal engineering, estimating, structural/foundation engineering and construction consultation. In the increasingly complex world of construction, DMC specializes in engineering; to plan, coordinate, monitor and control projects to a profitable conclusion.

DMC has associated with Maguire on past projects in the City of Boston and the Metropolitan area and has provided consulting engineering services to the BRA.

THE HALVORSON COMPANY (Landscape Architecture)

The Halvorson Company offers a most distinguished record for landscape architecture in urban environments. Its experience in metropolitan Boston is unsurpassed. Throughout its history the firm has been dedicated to improving the urban landscape of Boston. The Halvorson Company, Inc.'s projects in the last five years for the City of Boston include: The Dorchester Lower Mills Business District; Dudley Street at Upham's Corner; Improvements to Hyde Square in Jamaica Plain; Roslindale Square; West Broadway in South Boston; Pierce Square at Dorchester Lower Mills; and Cleary Square in Hyde Park. This firm is also working on the Tent City Project at Columbus Avenue and Dartmouth Street, streetscape improvements in the Kendall Square and East Cambridge areas of Cambridge. Halvorson is preparing a master plan and major construction package for Franklin Park directly adjacent to Washington Street corridor. As a result of its experience, The Halvorson Company not only understands neighborhood concerns, but enjoys excellent working relationships with the agencies within the City of Boston which will be involved with the

reconstruction of Washington Street. This relationship and knowledge of Boston design and construction criteria as well as an updated understanding of the construction market and bidding environment in metropolitan Boston will allow the firm to respond efficiently within a strict time frame.

SELECTED EXPERIENCE PROFILE - MAGUIRE

Tremont Street/Columbus Avenue Reconstruction
Boston, MA

The purpose of this project was the reconstruction of these two arterial streets in the South End of Boston. Aside from the normal design and considerations such as new utilities below grade, new street and sidewalk pavement, new lighting and other appurtenances, the innovative design concept evolved from a series of design sessions involving not only the client but various public agencies and members of the community. This "open door" policy ultimately led to a design which revitalizes and improves the environment of the street, reduces safety hazards created by pedestrian/automobile conflicts and generally restores the character of the area. The design reflects the cooperation between the desires of the community and accepted design practices in order to effect a satisfactory design.

North Station Urban Systems Project
Boston, MA

The North Station Urban Systems Project consists of the widening and reconstruction of Causeway Street, Merrimac Street; Lomasney Way and Marth Road. The project has been broken up into three phases with Phase I expected to proceed to the 35% stage soon. Total construction cost for the three phases is expected to exceed seven million dollars.

River Street Reconstruction
Waltham, MA

This project provides the design for the reconstruction of one mile of residential/commercial urban arterial roadway. The emphasis was on developing a functional design without encroaching on adjacent property owners or compromising safety. A four intersection signal system with railroad preemption and fire preemption "Opticon" system, interconnected by time base coordination, was designed into this project.

Revere Street and Washington Avenue
Revere, MA

This Urban systems project, funded by federal, state and local funds, consisted of preliminary and final design of improvements to 1.4 miles of urban roadway. It required approvals at all three levels of government. Throughout the design process, public input was received through a series of information meetings.

The improvements obtained by this reconstruction included"

- A curbed 34-ft. wide roadway with two travel lanes and a parking lane.
- Improved traffic flow and safety at several major intersections.
- 6 1/2-ft. to 10-ft. concrete sidewalks on both sides.
- Major drainage improvement.

- Creation of a mini-park.

Frederick Denison and Owen Urban Design Project
Hartford, CT

The City of Hartford and a private developer were recipients of a $2.3 million UDAG Grant for the rehabilitation of 600 housing units in the Frederick Denison and Owen Neighborhood. Maguire was retained to serve as site planners and engineers for the project. Included in the design and construction supervision were the development of major open space and recreational facilities, parking areas, street beautification and other pedestrian and residential amenities. A central theme of the project was the rehabilitation and restoration of the "1920" flavor to the neighborhood. This involved incorporation of landscape and architectural details, the utilization of wrought iron railings, fences and canopied walkways to reflect that period.

Woburn Square Downtown Plan
Woburn, MA

A plan for the revitalization of Woburn Square was completed by Maguire, outlining specific actions the City should undertake over a period of several years to improve the downtown and strengthen the convenience shopping functions.

The major recommendations involved increased parking facilities, storefront renovations and new landscaping/streetscape improvements.

Bank Street Urban Revitalization
Waterbury, CT

Working with the Community Development and Urban Renewal Agency of the City of Waterbury, Maguire prepared and oversaw the implementation of a major urban revitalization project along Bank Street in the heart of downtown Waterbury. The project involved the realignment of Bank Street, the widening of sidewalks and pedestrian crosswalks, the provision of pedestrian amenities such as benches, trash receptacles, planters, lighting and graphics, major landscape features, drop-off and pick-up vehicles spaces and other design improvements. The project involved close coordination with the Downtown Merchants' Association and the forty affected stores. A key feature of this program was the closing of the street on a Sunday and the preparation of a full scale mock-up for public inspection. The project was constructed within a very tight time schedule of six months. During the construction period, access to all stores was maintained and the project was completed prior to Thanksgiving and the holiday season sales period. The design provided for extension to other streets as part of a coordinated revitalization program.

Washington Street Historic Guideline and
Urban Design Study
South Norwalk, CT

The subject of this study was the historic commercial district of South Norwalk. Nearly three quarters of the area's buildings, most of which are late 19th century commercial structures, are included in a federally designated Historic Place category. The area has experienced a gradual decline since its

heyday at the turn of the century, but it became the focus of intense revitalization efforts.

The purpose of the study was to facilitate South Norwalk's rebirth by providing planning/design guidelines for the area, with special emphasis on building facades in the historic district. In addition, the study contained an economic overview of the area, design recommendations for building exteriors and public streetscape/site developments, and strategies for project implementation.

The Route 1 Urban Design Study
Norwalk, CT

This project involved the design of alternative alignment and streetscape concepts for Route 1 through the downtown area of Norwalk, Connecticut. The project involved the preparation of conceptual treatment for pedestrian and plaza areas. A series of design concepts were prepared and cost estimates established. These items were then presented to city officials, business groups and community leaders. A detailed alignment and design treatment was recommended and presented to state and regional agencies for incorporation within their funding properties. The total project value was about $4 million.

Central Plaza Development Plan
New Britain, CT

Located in the central business district of New Britain, this open plaza was designed to take best advantage of pedestrian paths, building envelopes, and links to nearby parking and commercial and office structures.

Commercial Renewal
Fall River, MA

The total design scheme for renewal of the seventy-five acre commercial core of this small seacoast city in southern Massachusetts included the renovation of a number of historic warehouses, housing schemes, new commercial, light industrial and recreational land uses. The major design element is the two-story set back mall along the main spine, crossed by bridge to link housing to the commercial district and over the street to recreational areas on the lower portion of the gently sloping site. The main commercial spine which runs parallel to the slopes is opened downhill by platforms at the bridge crossing to give views to the river below and to Fall River's major tourist attraction the battleship USS Massachusetts. The spine is terminated to the north by the new city hall complex.

Urban Renewal Planning and Design
Boston Redevelopment Agency
Boston, MA

The basic objective of the South End Urban Renewal Program was to reverse the trend of deterioration in a very old residential industrial section of Boston by providing a framework of environmental conditions suited to contemporary living and conducive to an orderly new growth of the community. Maguire was retained as the consultant to the Boston Redevelopment Authority in

formulating the initial planning and design concepts in the South End. The program for this Urban Renewal Project area, second largest in the nation, required master planning for land use and zoning; public facilities, service and recreational area; rights-of-way and traffic patterns; construction or reconstruction of streets; traffic, fire and police signal systems; and lighting, water supply, storm drainage and sanitary sewer systems.

Contracts totalling more than $50 million included site improvements, several new parks and playgrounds, several street construction contract, a comprehensive program of new lighting systems installation, and improvements to and new construction of water supply, storm drainage and sanitary sewer systems. Maguire also provided field inspection and resident engineering for the construction projects.

Street Beautification Project
Middletown, CT

The central business district's Main Street was provided with pedestrian amenities and traffic circulation improvements. The projects elements were extensive street planting, paving, lighting, and other amenities to reinforce the overall unity of the commercial street.

Malden Street and Washington Avenue Reconstruction
South Norwalk, CT

This historic area was provided with design recommendations for building exteriors and streetscape amenities, as well as strategies for public improvements.

Capital Hill Master Plan
Providence, RI

On Smith Hill in Providence, Rhode Island, adjacent to the State House, Maguire conceived and updated a development plan for the construction of approximately 100,000 s.f. of new state office space. The plan offered a number of scenarios which the State Building Authority considered for development. Planning for building locations and orientation, as well as roadways design, utilities design and urban design comprised the scope of the project.

Waterfront Recreational Development Complex
Middletown, CT

The City of Middltown, with assistance from Maguire, prepared a coordinated master plan for the reclamation and development of a major linear park along the Connecticut River. As part of Maguire's role in this project, they worked on the securing of several federal and state grants to implement the major components of this project. Included were the design of new bulkheads, landscaping, passive recreational areas, pedestrian amenities and parking area. A second phase provided for the construction of a boat house and launching area.

Church Street Market Place
Burlington, VT

A major four-block area with the Burlington central business district was transformed into a pedestrian-oriented shopping street. An innovative design approach linked a partial pedestrian mall concept to the downtown public transit loop. Special provisions for vendors, community events and other attractions were integrated with the basic concept as supplements to an already vital commercial district. Linkages to existing parking garages and an enclosed shopping mall were critical elements of the design.

The project was comprised of two major phases, underground utility renewal and surface improvements. The project was made possible by an $8 million Urban Mass Transit Transportation Administration grant.

Waterfront Enhancement Projects
Eastport, ME

Maguire has been a continuing marine planning and design consultant to this "Downeast" community for several years and for several interrelated development projects:

- Seawall and urban waterfront park
- Fish pier in downtown park
- Eastport to Lubec ferry service feasibility investigation.

Each of these projects not only afforded berthing facilities which greatly improved the safety of the craft moored during periods of severe storms, but also provided the town with more passive recreation areas for its townspeople and visitors.

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REFERENCES

Tremont Street/Columbus Avenue Reconstruction South End Boston, Massachusetts	Mr. Wallace B. Orpin Boston Redevelopment Authority Tel: 722-4300
North Station Urban Systems Project	Mr. Owen Donnelly Boston Redevelopment Authority Tel: 722-4300
River Street Reconstruction Waltham, Massachusetts	Mr. Michael Burke City of Waltham Tel: 893-4040
Revere Street and Washington Avenue Reconstruction Revere, Massachusetts	Mr. Frank Stringi City of Revere Tel: 284-3600

MAGUIRE
GROUP

STATEMENT OF AFFIRMATIVE ACTION POLICIES AND PRACTICES

Maguire Group's commitment to meeting BRA's DBE/WBE goals is demonstrated by the participation of the DMC Engineering of Framingham. Maguire Group Inc. has worked effectively with DMC, a minority owned business, on its projects for the Massachusetts Water Resources Authority (MWRA) in the clean-up of Boston Harbor.

MAGUIRE GROUP INC. AFFIRMATIVE ACTION COMPLIANCE PROGRAM POLICY STATEMENT

Because of the limited length for this proposal, this discussion of Maguire's Affirmative Action Program is considerably condensed. We will be happy to submit the complete and official Affirmative Action Compliance Program (AACP) under separate cover if the BRA wishes the opportunity to review it in detail.

Maguire Group Inc. is committed, on a voluntary basis, to take affirmative steps to implement equal opportunity in employment. Our efforts in this regard have been continuous in the hiring and upgrading of minorities and women. The Rehabilitation Act of 1973 and the Vietnam Era Veterans Readjustment Assistance Act of 1975 require affirmative action for handicapped persons, disabled veterans, and veterans of the Vietnam Era. Accordingly, throughout the AACP, minorities, women, handicapped persons, disabled veterans, and veterans of the Vietnam Era are referred to as protected classes.

In accordance with the policies established in the AACP, the objectives, requirements, and evaluation procedures are implemented by the following actions: (a) Establish methods to increase the number of protected class applicants for employment; (b) Actively seek and consider qualifies protected class employees on an equal basis with other qualified employees whenever an opportunity becomes available; (c) Base decisions on employment solely upon the individual's qualifications as related to the requirements of the position to be filled; and (d) Insure that all other personnel matters such as hiring, compensation, benefits, transfers, layoffs, returns from layoffs, Company-sponsored training, education, tuition assistance, social, and recreational programs are administered in accordance with the laws regarding the employment of protected classes.

Line management is responsible for the administration of the AACP. Through responsible subordinates, managerial personnel will: (a) Set goals, where required, that are significant, measurable and attainable. These goals shall specifically provide for the correction of under-utilization, if any, of protected classes; (b) Identify problem areas by department, location, job classification, etc., and take remedial action; and (c) conduct periodic reviews of the progress made under the Affirmative Action Compliance Program.

The Company's total AACP is coordinated through the office of the Vice President, Director of Personnel, at the Providence, Rhode Island office.

The intent of Maguire's AACP is to implement and accelerate equal opportunities for all employees and applicants for employment. Our management, at all levels, is required to make every good faith effort to fulfill this intent.

MAGUIRE
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Urban Renewal – South End

Client: Boston Redevelopment Authority
Location: Boston, Massachusetts

Construction: Ongoing

The basic objective of the South End Urban Renewal Program is to reverse the trend of deterioration by providing environmental conditions suited to contemporary living.

CE Maguire, Inc. was selected as the engineering consultant to the Boston Redevelopment Authority in formulating the initial planning and design concepts for the South End. The engineering program required master planning for land use and zoning; public facilities, services and recreational areas; rights-of-way and traffic patterns; construction or reconstruction of streets; traffic, fire and police signal systems; and lighting, water supply, storm drainage, and sanitary sewer systems.

CE Maguire, Inc. has been the engineering and planning consultant for this Urban Renewal Project area, second largest in the nation, from the initial conceptual period through to implementation and construction, and was engaged for planning, preliminary engineering, engineering design, preparation of construction drawings and specifications, and observation of construction of the improvements. The work also includes preparation of plans and documents, review and coordination of private developers' plans, and correlation of the work with the agencies involved.

Contracts worth over 70 million dollars have been completed or prepared for construction. These include several new parks and playgrounds, several street construction contracts, a comprehensive program of new lighting systems installation, and improvements to and new construction of water supply, storm drainage and sanitary sewer systems.

New work includes designing and preparing plans and specifications for construction of:

- additional street lighting
- remaining water main cleaning and cement lining
- extensive sewer and drain installation
- street and sidewalk reconstruction
- a new 6-acre park and playground area
- a new South End Drainage Pumping Station with 325 MGD capacity

Architects . Engineers . Planners

THE MAGUIRE GROUP

[illegible]
[illegible]

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Francis C. Pierce

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Chief Executive Officer
Paramount Cards, Inc.

Theodore W. Griesinger
President
International Training &
Education Company

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THE MAGUIRE GROUP

The combined professional service capabilities of CE Maguire, Inc., LBC&W/Maguire, Maguire/Beebe, CE Maguire Florida, Inc., and CE Maguire International, Inc. form one of the most comprehensive architectural, engineering, planning and construction supervision firms in the nation. . .The Maguire Group.

The member firms offer their specialized services worldwide to meet the needs of government, business and industry.

Each Maguire Group office is under the direction of a senior principal who has direct access to the resources of the entire Group. A project team of skilled professionals, encompassing all the disciplines necessary to provide cost efficient service, is assembled on each project to satisfy the particular needs of our clients.

The Maguire Group uses state-of-the-art technology in project design, as well as cost saving systems such as computer aided design and drafting. This enables our design professionals to supplement their professional capability with the most advanced technology available, thereby providing our clients with effective, efficient and personal solutions to their project requirements.

The Maguire Group welcomes this opportunity to introduce our firm and its many capabilities to you. We encourage you to learn more about us, to meet with us and to discuss with us your architectural, engineering, planning and construction supervision needs.

Infrastructure, Energy, Health Care, High Tech — all magic words of the 1980's, yet words that express and define the activities and efforts of The Maguire Group and its people throughout a large part of the world.

This brochure depicts the broad range of our activities as we respond to the urgent and often divergent needs of a complex society — a society that needs water for its industrial growth as well as for its people to drink, a society that needs brand-new airports and seaports as well as repairs to an aging and neglected highway network, a society that needs housing and hospitals and offices and manufacturing buildings, a society that needs to get rid of refuse and to create energy if it is to maintain and improve its standard of living.

These are needs that are continually increasing. The satisfying of these needs is the challenge we face and respond to in fulfillment of our responsibilities as professional architects, engineers and planners.

Tysons Sheraton Hotel and Conference Center

Combustion Engineering, Inc. General Office Facilities Stamford, CT

nternational Hotel
ference Center
A

Architecture

Maguire is dedicated to a philosophy of creating buildings and surroundings that add to the comfort, pleasure and efficiency of the people they serve. Our objective is to carefully identify our clients' needs, and then to work with them as an extension of their own organization throughout every phase of each project, from financial and conceptual planning, on through design and construction to actual occupancy. By combining innovative architectural design, utilizing computer-aided technology with pragmatic cost control, we continue to successfully meet the challenges of both private and public sector clients for the buildings they need at costs they can afford.

Digital
Equipment Corp.
Franklin, MA

U.S. Tax Court, Washington, DC (top)

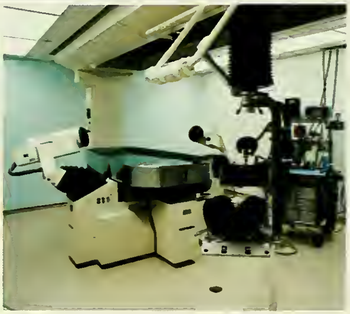
United States Postal Service
Management Training Academy
Dining Room,
Potomac, MD

Health Care Facilities

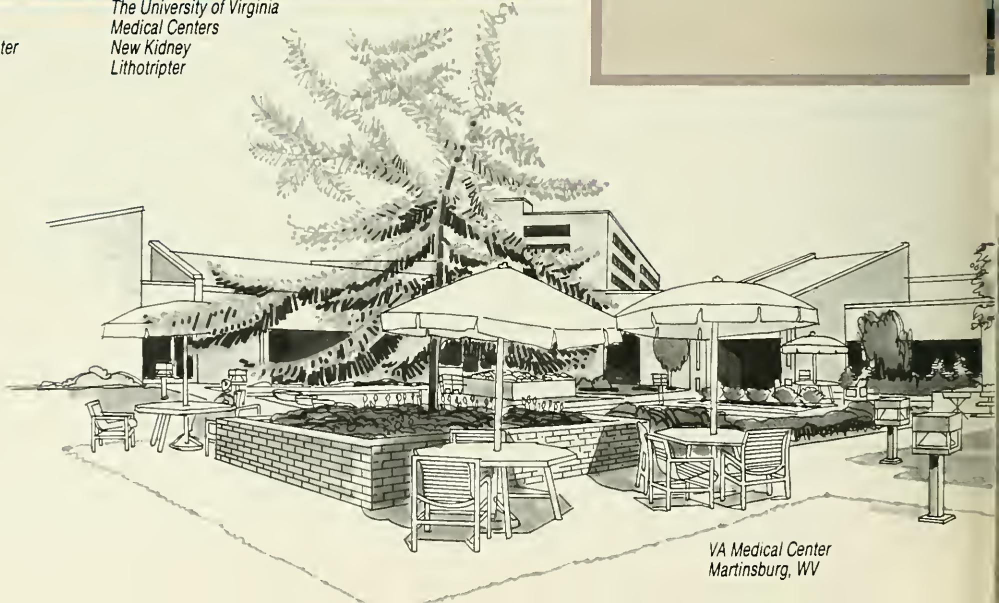
Technological advances and socioeconomic changes, resulting in longer lives for an increasing portion of our population, have created a growing need for health care facilities of every kind. Our challenge then is two-fold. First, to plan and design hospitals and extended health care, rehabilitation and health maintenance facilities; and second, to design these facilities in such a way as to make them adaptable to the changing requirements of the future. Our health care facilities group continues to respond to these challenges as evidenced by these projects, representative of the many we have planned and designed over the years.

John E. Donley Rehabilitation Center
Providence, RI

Therapeutic Room
John E. Donley
Rehabilitation Center
Providence, RI



The University of Virginia
Medical Centers
New Kidney
Lithotripter



VA Medical Center
Martinsburg, WV

U.S. Naval Hospital, Charleston, SC

Moncrief Army Hospital, Fort Jackson, SC

Inverness
Condominiums
Clearwater, FL

Isle of Clearwater
Condominiums
Clearwater Beach, FL

Housing

Housing — a basic necessity continually impacted by volatile governmental, social and economic influences. A keen awareness of these influences in the exercise of creative, cost-effective architectural design enables us to make the development of housing more affordable and attractive to developer and end user alike. Our employment of reprographics and computer-aided design and drafting systems is especially valuable in the housing field, as it allows us to maintain design excellence within a competitive fee structure.

Woodland Manor
Coventry, RI

Energy

Energy — Megawatts, BTU's, Horsepower. All measurements of energy, but what is energy and from where does it come? Energy is the force that drives our economy in the creation of jobs and the continued improvement of our standard of living. It comes from diminishing resources of oil, gas and coal; from renewable resources of sun, wind and water; and from the waste by-products of our society.

Our challenge is to effectively harness and utilize these resources through application of our professional skills in the areas of resource recovery, hydro power, solar power and fossil fuel generation.

Jackson Bluff Hydroelectric Station, City of Tallahassee, FL (top)

Substation Construction
Big Coppitt Key
City Electric System of
Key West, FL

138 KVA Transmission Line
Sugarloaf Key
City Electric System of
Key West, FL

Interstate 84 Bridge Rehabilitation, Danbury, CT (top)

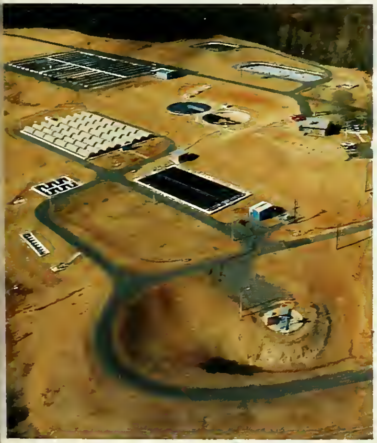
Bridge Reconstruction
Goffstown, NH

Urban Redevelopment, Boston, MA

Infrastructure

What is infrastructure? In years past we spoke of highways, bridges, sewers, water lines, airports, seaports, subways and dams. Now it is all infrastructure, and it is falling apart because it has not been adequately maintained. it is literally crumbling around us, but as always—problems present opportunities. In the 1980's the vast majority of our work is related to the repair, rehabilitation and expansion of infrastructure from New England to the Carolinas, from Washington, DC to Los Angeles, from Hawaii to the Philippines.

Planning, designing and supervising construction of improvements to the nation's infrastructure will utilize more and more of our company-wide resources throughout the eighties.



Henry Fork Wastewater Treatment Facility
Hickory, North Carolina

Relocated Old Ridgebury Road Over I-84, Danbury, CT (top)

Dam Construction
Norwich, CT

Interstate 95 and 195
Providence, RI

Roadway Improvements
Logan International Airport
Boston, MA (top)

Thames River Bridge
Montville-Preston, CT

Transportation

Transportation — a vital element of the infrastructure network. It is, perhaps, the single most determining factor in the development of this nation. It has enabled the U.S. to become the greatest economic power the world has known. Our firm was designing major highway systems a decade before the beginning of the interstate highway program in the 1950's. Since then, we have continued to become more and more involved in the planning and design of all types of transportation projects including airports and mass transit facilities as well as highways and bridges.

Mass Transit

Commuter Rail Line
Boston, MA

Washington, DC Metro Station
(Photo Courtesy Larry Levine,
Washington Metro)

RTD

Logo
Southern California
Rapid Transit District
Los Angeles, CA

Waterside
Wave Screen
Norfolk, VA

Port/Marine Facilities

In the 1980's we continue to provide planning and design of port and marine facilities for governments and the maritime industry throughout the world. Our long history of involvement in this field enables us to assure our clients of the technical, economical and environmental viability essential to the financial success of their port projects. This market, perhaps more than any other, provides us with the opportunity to work literally around the world practicing the talents and skills developed through nearly 50 years of experience in port planning, design and rehabilitation.

Chubbs Wharf
Mystic Seaport
Museum
Mystic, CT

Bath Iron Works Repair Facility
Portland, ME

Program Management

More and more of our clients look to us to act as an extension of their own staffs in managing and administering major programs from the initial conceptual planning and financial packaging stages, on through design and construction to total project completion. These challenging assignments provide us with the opportunity to satisfy the extensive and complex demands of managing such programs as: the evaluation and rehabilitation or replacement of 700 bridges in Allegheny County, Pennsylvania; the planning, design and construction of a $400 million seaport in Nigeria; the administration and contract liaison of multi-million dollar highway projects in New England; and the planned transfer of 60 mgd of water from one southern state to another through an eighty mile complex of pipes and pumping stations.

ırgh, PA, Photo Courtesy
ıs Stockhausen (top)

ate 295, 195 and US 6,
'on, RI

THE MAGUIRE GROUP

NORTHEAST REGION

One Davol Square, Providence, Rhode Island 02903	401/272-6000
60 First Avenue, Waltham, Massachusetts 02254	617/890-0100
38 Chauncy Street, Boston, Massachusetts 02111	617/451-6649
One Court Street, New Britain, Connecticut 06051	203/224-9141
1301 Manor Bldg., 564 Forbes Ave., Pittsburgh, Pennsylvania 15219	412/281-6393
401 Hamburg Turnpike, Suite 101, Wayne, New Jersey 07470	201/942-4811

MID-ATLANTIC REGION

5203 Leesburg Pike, Two Skyline Pl., Falls Church, Virginia 22041	703/998-0100

SOUTHEAST REGION

770 Lynnhaven Parkway, Suite 240, Virginia Beach, Virginia 23452	804/463-8770
364 South Pine Street, Spartanburg, South Carolina 29304	803/585-0185
1524 South Siesta Drive, Florence, South Carolina, 29501	803/669-4491
Minuet Commons, 415 Minuet Lane, Charlotte, North Carolina 28210	704/523-8028
1002 South Fort Harrison Avenue, Clearwater, Florida 33516	813/443-4591
2900 Chamblee-Tucker Road, Bldg.6, Atlanta, Georgia 30341	404/455-9375

WESTERN REGION

1440 Empire Central, Suite 210, Dallas, Texas 75247	214/631-1657
5701 Woodway, Suite 324, Houston, Texas 77057	713/782-2088
Corporate Center, 10010 N. 25th Drive, Phoenix, Arizona 85021	602/944-4656

PACIFIC REGION

1600 Kapiolani Boulevard, Honolulu, Hawaii 96814	808/949-2047

INTERNATIONAL

60 First Avenue, Waltham, Massachusetts 02254	617/890-0100

Maguire Group firms include:
CE Maguire, Inc., LBC&W/Maguire, Maguire/Beebe, CE Maguire Florida, Inc., CE Maguire International, Inc.

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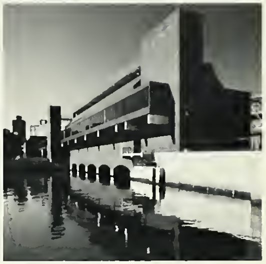
Standard Form (SF) 254 Architect - Engineer and Related Services Questionnaire

Address	Telephone	Personnel
Providence, RI 02903, One Davol Square	(401) 272-6000	150
Waltham, MA 02254, 60 First Avenue	(617) 890-0100	88
New Britain, CT 06051, One Court Street	(203) 224-9141	137
Pittsburgh, PA 15219, 1301 Manor Building, 564 Forbes Avenue	(412) 281-6393	8
Falls Church, VA 22041, 5203 Leesburg Pike Architecture, Suite 200 Engineering, Suite 207	 (703) 998-0100 (703) 998-0111	52
Virginia Beach, VA 23452, 770 Lynnhaven Pkwy., Suite 240	(804) 463-8770	45
Honolulu, HI 96814, 1600 Kapiolani Boulevard	(808) 949-2047	6
Phoenix, AZ 85021, Corporate Center, 10010 N. 25th Drive	(602) 944-4666	2
Dallas, TX 75247, Suite 210, Empire Plaza II, 1440 Empire Central	(214) 631-1657	2
Houston, TX 77057, Suite 336, 5701 Woodway	(713) 782-2088	2
Wayne, NJ 07470, 401 Hamburg Turnpike, Suite 101	(201) 942-4811	20
Atlanta, GA 30341, 2900 Chamblee-Tucker Road, Building 6	(404) 455-9375	20



STANDARD
FORM (SF)

254

Architect-Engineer
and Related Services
Questionnaire

1. Firm Name / Business Address:

Maguire Group Inc.
One Davol Square
Providence, Rhode Island 02903

1a. Submittal is for ☒ Parent Company ☐ Branch or Subsidiary Office

2. Year Present Firm Established: 1938

3. Date Prepared: July 1, 1987

4. Corporation

☐ A. Small Business
☐ B. Small Disadvantaged Business
☐ C. Woman-owned Business

5. Name of Parent Company, if any:

N/A

5a. Former Parent Company Name(s), if any, and Year(s) Established:

CE Maguire, Inc. — 1979
C-E Maguire, Inc. — 1970
Charles A. Maguire, Inc. — 1968
LBC&W — 1948
Charles A. Maguire & Associates — 1938

6. Names of not more than Two Principals to Contact: Title / Telephone

1) Vincent M. Cangiano, P.E., President (203) 224-9141
2) Richard J. Repeta, P.E., Executive Vice President (203) 224-9141

7. Present Offices: City / State / Telephone / No. Personnel Each Office

7a. Total Personnel 532

FOR A COMPLETE LISTING, SEE ABOVE.

8. Personnel by Discipline: *(List each person only once, by primary function.)*

88	Administrative	7	Electrical Engineers	4	Oceanographers	12	Word Processing
40	Architects	1	Estimators	14	Planners: Urban/Regional	10	Port/Marine Engineers
0	Chemical Engineers	0	Geologists	40	Sanitary Engineers	7	Contract Administrators
48	Civil Engineers	6	Hydrologists	5	Soils Engineers	7	Computer Programmers
41	Construction Inspectors	3	Interior Designers	2	Specification Writers	1	Graphics
83	Draftsmen	4	Landscape Architects	31	Structural Engineers	2	Photogrammetrists
0	Ecologists	18	Mechanical Engineers	4	Surveyors	3	Traffic
1	Economists	0	Mining Engineers	42	Transportation Engineers	8	Others

9. Summary of Professional Services Fees Received: (Insert index number)

Last 5 Years (most recent year first)

	1986	1985	1984	1983	1982
Direct Federal contract work, including overseas	6	7	7	7	6
All other domestic work	8	8	8	8	8
All other foreign work*	0	4	4	5	6

*Firms interested in foreign work, but without such experience, check here: ☐.

Ranges of Professional Services Fees

INDEX
1. Less than $100,000
2. $100,000 to $250,000
3. $250,000 to $500,000
4. $500,000 to $1 million
5. $1 million to $2 million
6. $2 million to $5 million
7. $5 million to $10 million
8. $10 million or greater

10. Profile of Firm's Project Experience, Last 5 Years

Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)
1) 005	4	1,250	11) 048	33	4,100	21) 089	69	3,000
2) 006	6	6,020	12) 049	20	1,400	22) 090	23	5,200
3) 011	76	8,450	13) 050	74	2,860	23) 096	355	26,700
4) 021	284	24,000	14) 052	30	1,700	24) 099	35	900
5) 029	23	2,700	15) 058	18	2,800	25) 102	60	560
6) 032	21	1,200	16) 072	63	4,700	26) 104	28	2,400
7) 033	44	5,400	17) 079	78	2,100	27) 107	42	1,500
8) 039	29	1,950	18) 083	98	4,300	28) 109	6	2,640
9) 042	71	5,900	19) 084	7	1,500	29) 110	18	2,000
10) 046	130	22,000	20) 087	6	1,100	30) 115	220	11,500

11. Project Examples, Last 5 Years

Profile Code	"P", "C", "JV", or "IE"	Project Name and Location	Owner Name and Address	Cost of Work (in thousands)	Completion Date (Actual or Estimated)
005	P	1 Airfield Improvements U.S. Marine Corps Air Station Kaneohe, Oahu, Hawaii	Naval Facilities Engineering Command Pacific Division Pearl Harbor, Hawaii	$ 29,000	1986
006	JV	2 Bradley International Airport Windsor Locks, Connecticut	Connecticut Department of Transportation Hartford, Connecticut	$100,000	1987
011	P	3 I-264 Interchange Norfolk, Virginia	Virginia Department of Transportation Richmond, Virginia	$ 16,000	1989
021	P	4 Bridge Maintenance/Rehabilitation and Replacement Management Program Allegheny County, Pennsylvania	Department of Engineering and Construction Allegheny County, Pennsylvania	$ 70,000	1988
021	P	5 I-91 Construction Inspection Hartford, Connecticut	Connecticut Department of Transportation Hartford, Connecticut	$ 69,000	1991
029	P	6 Elementary Schools Fairfax County Virginia	Fairfax County School System Fairfax County, Virginia	$ 16,000	1988
033	P	7 Preparation of Environmental Studies New York, New Jersey, Virgin Islands and Puerto Rico	U.S. Environmental Protection Agency - Region II New York, New York	$ 2,900 (Fee)	1987

039	P	8 Harvard Square Parking Garage Cambridge, Massachusetts	Louis D'Giovanni Cambridge, Massachusetts	$ 5,000	1985
042	P	9 Massport Marine Terminal Naval Annex South Boston, Massachusetts	Massachusetts Port Authority Boston, Massachusetts	$ 40,000	1986
046	P	10 Civic and Capitol Center Providence, Rhode Island	Rhode Island Department of Transportation Providence, Rhode Island	$ 67,000	1987
046	P	11 Southeastern Expressway Virginia Beach, Virginia	Virginia Department of Transportation Richmond, Virginia	$200,000	1991
046	P	12 I-287 Widening Morris/Somerset Counties, New Jersey	New Jersey Department of Transportation Trenton, New Jersey	$ 50,000	1988
048	P	13 Norwalk Hospital Norwalk, Connecticut	Norwalk Hospital Norwalk, Connecticut	$ 32,000	1988
049	P	14 Tysons Corner Sheraton Hotel and Conference Center McLean, Virginia	SRS Joint Venture Bethesda, Maryland	$ 40,000	1986
052	P	15 Systems Processing Facility Fort Meade, Maryland	U.S. Army Corps of Engineers Baltimore, Maryland	$ 12,000	1985
058	P	16 Toxicology and Research Laboratories Aberdeen Proving Grounds, Maryland	U.S. Army Corps of Engineers Baltimore, Maryland	$ 26,000	1989
072	P	17 State Office Building Providence, Rhode Island	Rhode Island Public Building Authority Providence, Rhode Island	$ 22,000	1987
083	P	18 27 Miles 138 KV Line and Substations Key West, Florida	City Electric System Key West, Florida	$ 22,000	1986
084	P	19 Berkshire County House of Corrections Renovations Pittsfield, Massachusetts	Commonwealth of Massachusetts Designer Selection Board Boston, Massachusetts	$ 3,000	1987

087	JV	20	MRTCA 195 Wilshire - Vermont Station Los Angeles, California	Southern California Rapid Transit District Los Angeles, California	$ 30,000	1988
090	P	21	1800 TPD Honolulu Resource Recovery Project Honolulu, Hawaii	Combustion Engineering, Inc. Windsor, Connecticut	$200,000	1989
090	P	22	2,000 TPD Mid-Connecticut Resource Recovery Facility - Design and Support Facilities Hartford, Connecticut	Combustion Engineering, Inc. Windsor, Connecticut	$154,000	1986
096	P	23	Advanced Wastewater Treatment Plant Meriden, Connecticut	City of Meriden, Connecticut	$ 30,000	1985
096	P	24	Preliminary Engineering Study PA-LI Wastewater Treatment Plant Taipei, Taiwan	Taiwan Housing and Urban Development Bureau Taipei, Taiwan	$600,000	1989
099	P	25	Prince George's County Landfill Methane Recovery Prince George's County, Maryland	Prince George's County Administration Upper Marlboro, Maryland	$ 4,500	1987
104	P	26	Storm and Sewage Separation Gravity Sewer Force Main and Pump Station Phase I Norwich, Connecticut	Norwich Public Utilities Norwich, Connecticut	$ 12,000	1987
107	JV	27	Signalization of 300 Intersections Boston, Massachusetts	City of Boston, Massachusetts	$ 15,000	1990
109	JV	28	Greenbelt Route Subway Section E-2 Washington, DC	Washington Metro Area Transit Authority Washington, DC	$ 75,000	1988
110	P	29	South End Urban Renewal Boston, Massachusetts	Boston Redevelopment Authority Boston, Massachusetts	$ 76,000	1987
115	P	30	Lake Gaston Water Supply Project Project Management, Preliminary and Final Design, Virginia Beach, Virginia	City of Virginia Beach, Virginia	$185,000	1992

12. The foregoing is a statement of facts

Date: July 1, 1987

Signature: Vincent M. Cangiano

Typed Name and Title: VINCENT M. CANGIANO, PRESIDENT

Experience Profile Code Numbers for use with questions 10 and 11

001 Acoustics; Noise Abatement
002 Aerial Photogrammetry
003 Agricultural Development; Grain Storage; Farm Mechanization
004 Air Pollution Control
005 Airports; Navaids; Airport Lighting; Aircraft Fueling
006 Airports; Terminals & Hangars; Freight Handling
007 Arctic Facilities
008 Auditoriums & Theatres
009 Automation; Controls; Instrumentation
010 Barracks; Dormitories
011 Bridges
012 Cemeteries *(Planning & Relocation)*
013 Chemical Processing & Storage
014 Churches; Chapels
015 Codes; Standards; Ordinances
016 Cold Storage; Refrigeration; Fast Freeze
017 Commercial Buildings *(low rise)*; Shopping Centers
018 Communications Systems; TV; Microwave
019 Computer Facilities; Computer Service
020 Conservation and Resource Management
021 Construction Management
022 Corrosion Control; Cathodic Protection; Electrolysis
023 Cost Estimating
024 Dams *(Concrete; Arch)*
025 Dams *(Earth; Rock)*; Dikes; Levees
026 Desalinization *(Process & Facilities)*
027 Dining Halls; Clubs; Restaurants
028 Ecological & Archeological Investigations
029 Educational Facilities; Classrooms
030 Electronics
031 Elevators; Escalators; People-Movers
032 Energy Conservation; New Energy Sources
033 Environmental Impact Studies, Assessments or Statements
034 Fallout Shelters; Blast-Resistant Design
035 Field Houses; Gyms; Stadiums
036 Fire Protection
037 Fisheries; Fish Ladders
038 Forestry & Forest Products
039 Garages; Vehicle Maintenance Facilities; Parking Decks
040 Gas Systems *(Propane; Natural, Etc.)*
041 Graphic Design
042 Harbors; Jetties; Piers; Ship Terminal Facilities
043 Heating; Ventilating; Air Conditioning
044 Health Systems Planning
045 Highrise; Air-Rights-Type Buildings
046 Highways; Streets; Airfield Paving; Parking Lots
047 Historical Preservation
048 Hospital & Medical Facilities
049 Hotels; Motels
050 Housing *(Residential, Multi-Family; Apartments; Condominiums)*
051 Hydraulics & Pneumatics
052 Industrial Buildings; Manufacturing Plants
053 Industrial Processes; Quality Control
054 Industrial Waste Treatment
055 Interior Design; Space Planning
056 Irrigation; Drainage
057 Judicial and Courtroom Facilities
058 Laboratories; Medical Research Facilities
059 Landscape Architecture
060 Libraries; Museums; Galleries
061 Lighting *(Interiors; Display; Theatre, Etc.)*
062 Lighting *(Exteriors; Streets; Memorials; Athletic Fields, Etc.)*
063 Materials Handling Systems; Conveyors; Sorters
064 Metallurgy
065 Microclimatology; Tropical Engineering
066 Military Design Standards
067 Mining & Mineralogy
068 Missile Facilities *(Silos; Fuels; Transport)*
069 Modular Systems Design; Pre-Fabricated Structures or Components
070 Naval Architecture; Off-Shore Platforms
071 Nuclear Facilities; Nuclear Shielding
072 Office Buildings; Industrial Parks
073 Oceanographic Engineering
074 Ordnance; Munitions; Special Weapons
075 Petroleum Exploration; Refining
076 Petroleum and Fuel *(Storage and Distribution)*
077 Pipelines *(Cross-Country—Liquid & Gas)*
078 Planning *(Community, Regional, Areawide and State)*
079 Planning *(Site, Installation, and Project)*
080 Plumbing & Piping Design
081 Pneumatic Structures; Air-Support Buildings
082 Postal Facilities
083 Power Generation, Transmission, Distribution
084 Prisons & Correctional Facilities
085 Product, Machine & Equipment Design
086 Radar; Sonar; Radio & Radar Telescopes
087 Railroad; Rapid Transit
088 Recreation Facilities *(Parks, Marinas, Etc.)*
089 Rehabilitation *(Buildings; Structures; Facilities)*
090 Resource Recovery; Recycling
091 Radio Frequency Systems & Shieldings
092 Rivers; Canals; Waterways; Flood Control
093 Safety Engineering; Accident Studies; OSHA Studies
094 Security Systems; Intruder & Smoke Detection
095 Seismic Designs & Studies
096 Sewage Collection, Treatment and Disposal
097 Soils & Geologic Studies; Foundations
098 Solar Energy Utilization
099 Solid Wastes; Incineration; Land Fill
100 Special Environments; Clean Rooms, Etc.
101 Structural Design; Special Structures
102 Surveying; Platting; Mapping; Flood Plain Studies
103 Swimming Pools
104 Storm Water Handling & Facilities
105 Telephone Systems *(Rural; Mobile; Intercom, Etc.)*
106 Testing & Inspection Services
107 Traffic & Transportation Engineering
108 Towers *(Self-Supporting & Guyed Systems)*
109 Tunnels & Subways
110 Urban Renewals; Community Development
111 Utilities *(Gas & Steam)*
112 Value Analysis; Life-Cycle Costing
113 Warehouses & Depots
114 Water Resources; Hydrology; Ground Water
115 Water Supply, Treatment and Distribution
116 Wind Tunnels; Research/Testing Facilities Design
117 Zoning; Land Use Studies
201 ____________
202 ____________
203 ____________
204 ____________
205 ____________

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STANDARD FORM (SF)
254
Architect-Engineer and Related Services Questionnaire

1. Firm Name / Business Address:
The Halvorson Company, Inc.
161 Massachusetts Avenue
Boston, Massachusetts 02115-3050

1a. Submittal is for ☒ Parent Company ☐ Branch Office

2. Year Present Firm Established: 1983

3. Date Prepared: April 3, 1987

4. Type of Ownership: Corporation

4a. Minority Owned ☐ yes ☒ no

5. Name of Parent Company, if any:

5a. Former Firm Name(s), if any, and Year(s) Established:
The Halvorson Company 1980
139 West Canton Street
Boston, Massachusetts 02118

6. Names of not more than Two Principals to Contact: Title / Telephone

1) Craig C. Halvorson, President (617) 536-0380
2) Peter C. Welanetz, Vice President (617) 536-0380

7. Present Offices: City / State / Telephone / No. Personnel Each Office

The Halvorson Company, Inc.
161 Massachusetts Avenue
Boston, Massachusetts 02115-3050
(617) 536-0380

7a. Total Personnel 14

8. Personnel by Discipline:

2 Administrative
___ Architects
___ Chemical Engineers
___ Civil Engineers
___ Construction Inspectors
1 Draftsmen
___ Ecologists
___ Economists
___ Electrical Engineers
___ Estimators
___ Geologists
___ Hydrologists
_ _ Interior Designers
11 Landscape Architects
___ Mechanical Engineers
___ Mining Engineers
___ Oceanographers
___ Planners: Urban/Regional
___ Sanitary Engineers
___ Soils Engineers
___ Specification Writers
___ Structural Engineers
___ Surveyors
___ Transportation Engineers

9. Summary of Professional Services Fees Received: (insert index number)

Last 5 Years (most recent year first)

	19 86	19 85	19 84	19 83	19 82
Direct Federal contract work, including overseas	-	-	-	-	-
All other domestic work	3	3	2	1	1
All other foreign work*	-	-	-	-	-

*Firms interested in foreign work, but without such experience, check here: ☐.

Ranges of Professional Services Fees
INDEX
1. Less than $100,000
2. $100,000 to $250,000
3. $250,000 to $500,000
4. $500,000 to $1 million
5. $1 million to $2 million
6. $2 million to $5 million
7 $5 million to $10 million
8 $10 million or greater

Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)
1) 006	1	4.2	11) 050	43	605.0	21)		
2) 010	3	46.0	12) 052	3	20.0	22)		
3) 014	1	0.4	13) 059	12	250.2	23)		
4) 017	1	1.0	14) 060	1	3.5	24)		
5) 018	1	2.3	15) 072	5	38.0	25)		
6) 019	2	12.0	16) 079	6	15.0	26)		
7) 029	2	26.5	17) 088	9	340.0	27)		
8) 047	6	225.0	18) 089	2	27.0	28)		
9) 048	9	110.0	19) 110	17	185.0	29)		
10) 049	4	75.0	20)			30)		

11. Project Examples, Last 5 Years

Profile Code	"P", "C", "JV", or "IE"	Project Name and Location	Owner Name and Address	Cost of Work (in thousands)	Completion Date (Actual or Estimated)
006	C	[1]General Aviation Terminal Logan International Airport East Boston, Massachusetts	Massachusetts Port Authority Pier A, North Terminal Logan International Airport E. Boston, Massachusetts 02128	$150	1984
010	P	[2]Lowell House & Standish Hall Landscape Restoration Harvard University Cambridge, Massachusetts	Harvard University 900 Holyoke Center 1350 Massachusetts Avenue Cambridge, Massachusetts	$ 40	1983
012	IE	[3]Massachusetts National Cementary Bourne, Massachusetts	The Veteran's Administration Washington, DC	$17,000 (MP) $800 (PH #1)	1978 1980
059	P	[4]Colby College Planting Master Plan Waterville, Maine	Colby College Department of Physical Plant Waterville, Maine	$50 (PH #1)	1987
059	C	5 Boston Parks and Recreation Lands Assessment and Survey Boston, Massachusetts	Mayor's Office of Capital Planning City of Boston Boston, Massachusetts	$75	1987
029	C	6Freeport Middle School Freeport, Maine	Town of Freeport Freeport, Maine 04032	$400	1985
047	C	7 Lowell Market Mills Lowell, Massachusetts	Lowell Historic Preservation Comm. Department of the Interior 204 Middle Street Lowell, Massachusetts	$400	1982

		Shaker Village Hydrological Study and Roadway Renovations Canterbury, New Hampshire	Canterbury Shaker Village, Inc. Canterbury, New Hampshire	$ 35	1984
048	C	[9] Arbour/Glenside Hospital Jamaica Plain, Massachusetts	Arbour Hospital Qualicare, Inc. Jamaica Plain, Massachusetts	$750	1983
050	C	[10] Bucknell Village Lewisburg, Pennsylvania	Trustees of Bucknell University Lewisbury, Pennsylvania	$2,000	1986
050	C	[11] Jug End Housing Development South Egremont, Massachusetts	Reef, Watchmaker and Company 183 State Street Boston, Massachusetts 02109	$150(MP) $10,000(PH #1)	1986 1988
050	C	[12] Briarwood Housing Worcester, Massachusetts	Salem Community Corporation Worcester, Massachusetts	$500	1984
059	C	[13] Colonial Williamsburg Visitors Center Additions & Renovations Williamsburg, Virginia	Colonial Williamsburg Foundation Post Box C Williamsburg, Virginia	$500	1984
060	C	[14] Calvert Marine Museum Solomons, Maryland	Calvert Marine Museum Solomons, Maryland	$350	1986
079	C	[15] Bangor Theological Seminary Bangor, Maine	Bangor Theological Seminary Bangor, Maine	$125	1984
079	C	[16] Meadowlands Development Project - Phase A Secaucus, New Jersey	Allied Outdoor Advertisding c/o Breslin, Herten & Lepore 14 Washington Place Hackensack, New Jersey 07601	$2,000	
079	IE	[17] Revere Beach Reservation Park Development/Master Plan, Phase 1 & 2 Revere, Massachusetts	Metropolitian District Commission 20 Somerset Street Boston, Massachusetts 02108	$50,000(MP) $1,200(PH#1) $850 (PH#2)	1978 1980 1981
079	C	[18] Walden Pond Master Plan Report Lincoln, Massachusetts	Department of Environmental Management State of Massachusetts 100 Cambridge Street Boston, Massachusetts	$450	1984
088	P	[19] DiSalvo Park Revere, Massachusetts	Department of Planning & Community Development, City of Revere City Hall, Revere, Massachusetts	$160	1984

088	C	20 Children's Zoo Franklin Park Boston, Massachusetts	Boston Zoological Society 121 Mt. Vernon Street Boston, Massachusetts	$ 500	1984
088	C	21 Market Landing Park Newburyport, Massachusetts	Office of Community Development City of Newburyport City Hall Newburyport, Massachusetts 01950	$1200	1983
088	C	22 Wentworth-by-the-Sea Marina Facility New Castle, New Hampshire	Pacific Park Corporation Wentworth-by-the-Sea New Castle, New Hampshire 03854	$ 400	1984
088	P	23 Front Park Cambridge, Massachusetts	Community Development Department City of Cambridge Cambridge, Massachusetts 02139	$ 550	1986
088	C	24 Tent City Boston, Massachusetts	Tent City Development Corporation Boston, Massachusetts	$ 800	1987
088	P	25 Franklin Park Olmstead Historic Landscape Restoration Program Boston, Massachusetts	Department of Environmental Mgmt. Commonwealth of Massachusetts	$ 1000	1987
110	P	26 Dorchester Lower Mills Business District - Phase 1 Dorchester, Massachusetts	City of Boston Neighborhood Develop. & Employ. Agency 15 Beacon Street Boston, Massachusetts 02110	$ 335	1982
110	P	27 Dorchester Lower Mills Business District - Phase 2 Dorchester, Massachusetts	City of Boston Public Facilities Department 15 Beacon Street Boston, Massachusetts	$ 550	1986
110	P	28 Cleary Square Street Improvements Hyde Park, Massachusetts	City of Boston Public Facilities Department 15 Beacon Street Boston, Massachusetts	$ 790	1987
110	C	29 Beaver Brook Reservation Rehabilitation Belmont/Waltham, Massachusetts	Metropolitan District Commission 20 Somerset Street Boston, Massachusetts 02108	$1,200	1987
110	C	30 KendallSquare Site Preparation Contract No. 12,13, Cambridge, Massachusetts No. 14	Cambridge Redevelopment Authority Cambridge, Massachusetts	$ 3,000	1987

12. The foregoing is a statement of facts

Signature: Typed Name and Title: Peter Welanetz, Vice President

Date: April 3, 1987

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Waltham, Massachusetts 02254
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